| Ref<br>#  | Hits | Search Query   | DBs   | Default<br>Operator | Plurals | Time Stamp       |
|-----------|------|--|---|---------------------|---------|------------------|
| S1 .      | . 29 | ("20010008534" "20010028644" " 20010040042" "20020007490" "2 0020018491" "20020027876" "20 020027927" "20020039359" "200 20044597" "20020056137" "2002 0080933" "20020097105" "20020 167970" "20030012362" "200301 42759").PN. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON .    | 2007/12/06 15:45 |
| S2        | 314  | 370/536.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/03/26 14:40 |
| <b>S3</b> | 49   | S2 and (inverse near5 multiplex\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/03/26 18:31 |
| S4        | 16   | S3 and (DS3 or E3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/03/26 14:56 |
| S5        | 7    | S4 and ((packet adj3 index\$3) or (sequenc\$3 adj3 number\$3))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/03/26 17:44 |
| <b>S7</b> | 31   | (inverse adj2 multiple\$3) and dsl<br>and (DS3 or T3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/03/26 17:56 |
| S9 .      | 231  | (inverse adj2 multiple\$4) and (DS3 or T3 or E3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/12/05 10:41 |
| S10       | 108  | (inverse adj2 multiple\$4) and<br>modem and (DS3 or T3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/12/04 10:50 |
| S11       | 54   | (inverse adj2 multiple\$4) and dsl<br>and (DS3 or T3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2007/03/26 17:56 |

| •   |      | LASI Scal   |   | •  |    |                  |
|-----|------|---|---|----|----|------------------|
| S13 | 2517 | (inverse near5 (multiplex\$3 or mux)) or imux           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/26 18:32 |
| S14 | 318  | S13 and (DS3 or E3 or T3)                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 12:23 |
| S15 | 120  | S14 and ((twisted adj2 pair) or copper)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 07:17 |
| S16 | 0    | atkino.as.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/03 10:05 |
| S17 | 27   | actelis.as.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/03 08:38 |
| S18 | 2    | "5608733".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 10:19 |
| S19 | 7    | "617363".ap.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 11:28 |
| S20 | 6    | "510550".ap.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 12:57 |
| S21 | 2    | "6421296".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 12:58 |
| S22 | 108  | (inverse adj2 multiple\$4) and<br>modem and (DS3 or T3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 17:28 |

| S23 | 67         | S22 and loop\$back   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 17:46 |
|-----|------------|--|---|----|----|------------------|
| S24 | 2820       | loop\$back and code and processor                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 17:48 |
| S25 | 1          | (identify near loop\$back near code) and processor                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 17:48 |
| S26 | 236        | (loop\$back with code) and processor                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 17:51 |
| S27 | 3158       | (loop\$back with (code or signal))                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 17:52 |
| S28 | <b>618</b> | (loop\$back with (code or signal))<br>and intermediate                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 17:53 |
| S29 | 215        | (loop\$back with (code or signal))<br>and intermediate and maintenance | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/27 17:53 |
| S30 | 419        | (loop\$back with (code or signal))<br>and intermediate and test\$3     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/28 07:25 |
| S31 | 419        | (loop\$back with (code or signal))<br>and intermediate and test\$3     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/28 16:35 |
| S33 | 275        | S31 and (consecutive or repeat\$3 or row)                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/28 16:27 |

| S34 | 2    | "665 <u>7</u> 963".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/28 16:28 |
|-----|------|--|---|----|----|------------------|
| S35 | 2    | "6657953".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/28 16:28 |
| S36 | 108  | (DS3 and loop\$back with (code or signal))                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/28 16:52 |
| S37 | 40   | (DS3 and loop\$back with (code or signal)) and repeater                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/28 16:52 |
| S38 | 2    | "3692964".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/28 17:42 |
| S39 | 2524 | (inverse near5 (multiplex\$3 or mux)) or imux                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 16:56 |
| S40 | 158  | S39 and (DS3 or E3 or T3) and packet                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 12:24 |
| S41 | 33   | S39 and (DS3 or E3 or T3) and packet adj2 (number or sequence or index)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 12:49 |
| S42 | 72   | S39 and (DS3 or E3 or T3) and packet near5 (number or sequence or index) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 14:07 |
| S43 | 7    | S39 and ((multilink adj2<br>point\$to\$point) or mlptp)                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 14:36 |

| S44   | 7     | S43 and packet   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 12:55 |
|-------|-------|--|---|----|----|------------------|
| S45 · | . 4   | S43 and packet near5 (number or index)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 12:56 |
| S46   | 12    | ("4470112"   "4631534"  <br>"4704606"   "4958341"  <br>"5140582"   "5179556"  <br>"5293378"   "5764624"  <br>"5784357"   "5949778"  <br>"6026092"   "6148010").PN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/03/29 13:59 |
| S47   | 85    | S39 and (DS3 or E3 or T3) and packet with (number or sequence or index)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 16:27 |
| `S48  | 44    | ((multilink adj2 point\$to\$point) or mlptp)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 14:56 |
| S49   | 2     | "6754714".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 15:00 |
| S50   | 2     | "6160808".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 15:00 |
| S51   | 360   | S39 and packet with (number or sequence or index)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 16:58 |
| S52   | 33867 | (inverse near5 (multiplex\$3 or mux)) or imux or (load adj2 balanc\$3) or (load adj2 shar\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/29 16:57 |

|     |      | LASI Scal   |   | •    |    |                  |
|-----|------|---|---|------|----|------------------|
| S53 | 4309 | S52 and packet with (number or sequence or index)       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/03/29 17:13 |
| S54 | 29   | S52 and segmentation and reassembly and resequencing    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/03/29 17:14 |
| S55 | 888  | loop\$back and repeater                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/03/30 10:29 |
| S56 | 55   | loop\$back and repeater and ds3                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/03/30 10:58 |
| S57 | 2    | loop\$back and repeater and ds3 and FEAC                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/03/30 11:04 |
| S58 | 12 . | loop\$back and repeater and ds3 and (number adj2 times) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/03/30 11:11 |
| S60 | 71   | loop\$back and ds3 and (number adj2 times)              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/03/30 11:13 |
| S61 | 340  | loop\$back and ds3                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/03/30 11:14 |
| S62 | 55   | loop\$back and ds3 and repeater                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/03/30 11:37 |
| S63 | 46   | loop\$back and ds3 and repeater and test\$3             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON | 2007/03/30 12:06 |

| S64 | 2    | "6958908".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 12:07 |
|-----|------|---|---|----|----|------------------|
| S65 |      | "3692964".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 13:26 |
| S68 | 912  | repeater and active and stand\$by   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 13:28 |
| S69 | 701  | repeater and active and stand\$by and switch  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 13:29 |
| S70 | 123  | repeater and (active same stand\$by same switch)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/03/30 13:29 |
| S71 | 2    | repeater and non\$repeater with (switch or selector)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 10:14 |
| S72 | 2337 | repeater and terminal with (switch or selector)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 07:27 |
| S73 | 73   | repeater and terminal with (switch or selector) and ds3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 07:27 |
| S74 | 3665 | repeater and (non\$repeater or terminal or end\$station) with (switch or select\$3)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 07:39 |
| S75 | 290  | repeater and (non\$repeater or terminal or end\$station) with (switch or select\$3) and (ds3 or t3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 08:30 |

| S76 | 17    | repeater and (non\$repeater or (terminal adj station) or (end adj2 station) or (line adj terminal)) with (switch or select\$3) and (ds3 or t3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/04/02 08:41 |
|-----|-------|--|---|------|------|------------------|
| S77 | 392   | repeater and (non\$repeater or (terminal adj station) or (end adj2 station) or (line adj terminal)) with (switch or select\$3)                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON . | 2007/04/02 09:03 |
| S78 | 20    | "same" with (module or unit or circuit) with (repeater and ((line adj2 (terminal or unit) or (end adj2 station))))                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/04/02 09:35 |
| S79 | . 1   | "same" with (module or unit or circuit) with (repeater and ((line adj2 (terminal or unit) or (end adj2 station)))) with (selector or switch)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/04/02 09:19 |
| S80 | 42919 | "same" with (module or unit or circuit) with (repeater adj station) and (terminal adj2 station) or (line adj2 terminal)                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/04/02 09:37 |
| S81 | . 12  | "same" with (module or unit or circuit) with (repeater adj station) and ((terminal adj2 station) or (line adj2 terminal))                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/04/02 09:38 |
| S82 | 6     | "same" with (module or unit or circuit) with (repeater adj station) with ((terminal adj2 station) or (line adj2 terminal))                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/04/02 10:12 |
| S84 | 2     | repeater with (end adj unit) with (switch or selector)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/04/02 10:15 |
| S85 | 91    | repeater with (terminal adj (unit or station)) with (switch or selector)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON   | 2007/04/02 10:23 |
| S86 | 4     | repeater with (terminal adj (unit or<br>station)) with using with "same"<br>with (module or unit or circuit)                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/04/02 10:25 |

|          |        |   | · · · · · · · · · · · · · · · · · · ·                   |    |    |                  |
|----------|--------|---|---|----|----|------------------|
| S87      | 30     | repeater with (terminal adj (unit or<br>station)) with "same" with<br>(module or unit or circuit)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 10:54 |
| S88      | 3      | repeater with (terminal adj (unit or<br>station)) with "same" with<br>(module or unit or circuit) with<br>switch  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 10:56 |
| S89      | 9512   | repeater and configur\$5 and switch   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 10:57 |
| S90      | 213    | repeater with configur\$5 with switch   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 11:05 |
| S92      | 448667 | repeater with (end adj unit) or<br>(terminal adj2 (unit or<br>station))(configur\$5 or select\$4)<br>with(switch or (dip adj switch) or<br>conmutator or bridge)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 11:13 |
| S97      | 57041  | repeater with (end adj unit) or<br>(terminal adj2 (unit or<br>station))(configur\$5 or select\$4)<br>with(switch or (dip adj switch) or<br>conmutator or bridge) and west<br>and east | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 11:14 |
| S10<br>0 | 311    | repeater and (dip adj switch)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 11:17 |
| S10<br>1 | 104    | repeater and (dip adj switch)and ("370".clas. or "455".clas.)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 11:25 |
| S10<br>2 | . 80   | repeater and (dip adj switch)and ("370".clas.)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 12:31 |

| S10<br>3 | 42     | repeater and (dip adj switch)and<br>("455".clas.)                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/04/02 12:41 |
|----------|--------|---|---|------|----|------------------|
| S10<br>4 | 311    | repeater and (dip adj switch)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/04/02 12:57 |
| S10<br>5 | 15351  | repeater and (switch)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/04/02 12:57 |
| S10<br>6 | 3402   | repeater and (switch) and "370". clas.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/04/02 12:57 |
| S10<br>7 | 3402   | repeater and switch and "370". clas.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/04/02 12:57 |
| S10<br>8 | 126569 | repeater and switch and "370".<br>clas. and t1 or e1 or ds3 or pcm                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/04/02 12:58 |
| S10<br>9 | 1089   | repeater and switch and "370".<br>clas. and (t1 or e1 or ds3 or pcm)                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/04/02 13:01 |
| S11<br>0 | 1092   | repeater and (switch or jumper)and "370".clas. and (t1 or e1 or ds3 or pcm)           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/04/02 13:01 |
| S11<br>1 | 55     | repeater and ((dip adj switch) or jumper)and "370".clas. and (t1 or e1 or ds3 or pcm) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON | 2007/04/02 13:17 |
| S11<br>2 | 13     | repeater and ((dip adj switch) or<br>jumper)and "370".clas. and east<br>and west      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/04/02 13:44 |

|          |      |   |   | -       |    |                  |
|----------|------|---|---|---------|----|------------------|
| S11<br>3 | 106  | repeater and ((dip adj switch) or<br>jumper)and "370".clas. and local<br>and remote | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR<br>- | ON | 2007/04/02 13:45 |
| S11<br>4 | 97   | repeater and terminal and local<br>and remote and dip adj switch                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/02 15:37 |
| S11<br>5 | 11   | back adj3 back adj2 repeaters   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR .    | ON | 2007/04/02 15:40 |
| S11<br>6 | 6    | ds3 near3 repeater  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/02 15:48 |
| S11<br>7 | 103  | two\$wire near5 repeater  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/02 16:07 |
| S11<br>8 | 62   | (ds3 or t3) near5 repeater  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/02 16:08 |
| S11<br>9 | 27   | actelis.as.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/02 16:26 |
| S12<br>0 | 3159 | (loop\$back with (code or signal))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/02 16:20 |
| S12<br>1 | 38   | S120 and dip adj switch   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/02 16:21 |
| S12<br>2 | 0    | actelis.as. and dip adj switch  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/02 16:35 |

| S12<br>3 | 5161 | dsl adj modem   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 16:35 |
|----------|------|---|---|----|----|------------------|
| S12<br>4 | 233  | dsl adj modem and repeater                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 16:39 |
| S12<br>5 | 56   | dsl near5 repeater                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 16:58 |
| S12<br>6 | 1924 | repeater with address                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 16:59 |
| S12<br>7 | 430  | S126 and "370".clas.                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 17:03 |
| S12<br>8 | 6    | S127 and ds3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 17:00 |
| S12<br>9 | 135  | S126 and "370".clas. and (twisted or copper) adj pair | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/02 17:04 |
| S13<br>0 | 2    | "6101172".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/03 10:10 |
| S13<br>1 | 230  | 1:1 adj protection                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/04 09:44 |
| S13<br>2 | 46   | 1:1 adj protection and repeater                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/04/04 09:33 |

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| S13<br>3  | 452 | (1:1 or 1+1) adj protection                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/04 09:45 |
| S13<br>4  | 63  | (1:1 or 1+1) adj protection and repeater              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/04 09:47 |
| S13<br>5  | 0   | (1:1 or 1+1) adj protection with chassis and repeater | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/04 09:48 |
| S13<br>6  | . 1 | (1:1 or 1+1) adj protection with chassis              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR<br>/ | ON | 2007/04/04 15:42 |
| S13<br>7  | 44  | c-bit and loopback                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/04 15:55 |
| S13<br>.8 | 10  | c-bit and (ds3 with loopback)                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/04/04 15:56 |
| S13<br>9  | 752 | (tsatsanis itri lao).in.                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/11/29 15:08 |
| S14<br>0  | 1   | S139 and ds3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/11/29 14:57 |
| S14<br>1  | 41  | S139 and copper                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/11/29 14:57 |
| S14<br>2  | 30  | (tsatsanis ).in.                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR      | ON | 2007/11/29 15:18 |

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| S14<br>3 | 2       | "5181198".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/11/29 15:20 |
| S14<br>4 |         | "5381412".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/03 08:40 |
| S14<br>6 | 2       | "5619505".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/03 08:40 |
| S14<br>9 | 2       | "5065396".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/03 09:20 |
| S15<br>0 | 24      | ds3 with (four S146) adj2 channel                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/03 09:47 |
| S15<br>1 | 4       | "4322844".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/03 09:42 |
| S15<br>2 | 361     | (ds3 t3 ) same (four S146) adj4<br>(channel link circuit) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/03 09:49 |
| S15<br>3 | 116     | (ds3 t3 ) with (four S146) adj4<br>(channel link circuit) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/03 09:49 |
| S15<br>4 | 5       | aktino.as.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/03 10:21 |
| S15<br>5 | 2546808 | "45" mbit same "13" mbit                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON | 2007/12/03 10:21 |

| S15<br>6 | 0    | "45" adj mbit same "13" adj mbit  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/12/03 10:22 |
|----------|------|---|---|------|------|------------------|
| S15<br>7 | 0    | ("45" adj mbit) same ("13" adj<br>mbit)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/12/03 10:22 |
| S15<br>8 | 355  | ("45" adj m) same ("13" adj m)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/12/03 10:23 |
| S15<br>9 | 3    | ("45" adj mb) same ("13" adj mb)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/12/03 11:19 |
| S16<br>0 | 4521 | framer  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/12/03 11:19 |
| S16<br>1 | 48   | framer and stream adj number  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/12/05 10:26 |
| S16<br>2 | 988  | framer same number  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/12/03 11:26 |
| S16<br>3 | 30   | framer with (stream link circuit channel) adj2 number                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON   | 2007/12/03 11:27 |
| S16<br>5 |      | (inverse adj multiplex\$3)and<br>(framer with (stream link circuit<br>channel) adj2 number) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR · | ON . | 2007/12/03 11:28 |

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| S16<br>6 | 17  | ("5875192"   "5905781"   "6002670"   "6005873"   "6021158"   "6084885"   "6310894"   "6404861"   "6452942"   "6480487"   "6499061"   "6501770"   "6580727"   "6618374"   "6775305"   "6781985"   "6801539").PN.                       | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/12/03 15:40 |
|----------|-----|---|---|----|----|------------------|
| S16<br>7 | 17  | ("5875192"   "5905781"   "6002670"   "6005873"   "6021158"   "6084885"   "6310894"   "6404861"   "6452942"   "6480487"   "6499061"   "6501770"   "6580727"   "6618374"   "6775305"   "6781985"   "6801539").PN. OR ("7092412"). URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/12/04 10:45 |
| S16<br>8 | 105 | (ds3 t3) and "11" adj Mbps  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/12/04 15:02 |
| S16<br>9 | 1   | (ds3 t3) with "11" adj Mbps   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/12/04 10:48 |
| S17<br>0 | 4   | (ds3 t3) with "4" adj links   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON | 2007/12/04 10:48 |
| S17<br>1 | 230 | (inverse adj2 multiple\$4) and (DS3 or T3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/04 10:50 |
| S17<br>2 | 49  | (inverse adj2 multiple\$4) with (DS3 or T3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/04 13:14 |
| S17<br>3 | 4   | (inverse adj2 multiple\$4) with (DS3 or T3) with ("4" or four)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/04 13:19 |
| S17<br>4 | 830 | (DS3 or T3) with ("4" or four) with ("11" or eleven)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/04 13:22 |

| S17<br>5 | 15138  | (DS3 or T3) with ("4" or four)                               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/04 13:23 |
|----------|--------|--|---|------|----|------------------|
| S17<br>6 | 128031 | (DS3 or T3) with ("4" or four) znd<br>"370".clas.            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/04 13:23 |
| S17<br>7 | 769    | (DS3 or T3) with ("4" or four) and "370".clas.               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/04 13:24 |
| S17<br>8 | 228    | (DS3) with ("4" or four) and "370".clas.                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/04 13:24 |
| S17<br>9 | 2049   | ("11" "13") adj Mbps   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR . | ON | 2007/12/04 15:04 |
| S18<br>0 | 15     | ("11" "13") adj Mbps and ds3                                 | US-PGPUB;<br>USPAT;<br>USOCR                            | OR   | ON | 2007/12/04 15:04 |
| S18<br>1 | 2      | "5875192".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/04 16:31 |
| S18<br>2 | 33     | framer with (stream sequence link channel) adj2 number       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/05 10:26 |
| S18<br>3 | 128    | (inverse adj2 multiple\$4) with (four "4")                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/05 11:27 |
| S18<br>4 |        | (inverse adj2 multiple\$4) with (pots twisted copper analog) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/05 13:41 |

| S18<br>5 | 6   | (inverse adj2 multiple\$4) with ((stream link) adj (number indicat\$3))       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/05 13:44 |
|----------|-----|---|---|------|----|------------------|
| S18<br>6 | 13  | (inverse adj2 multiple\$4) same<br>((stream link) adj (number<br>indicat\$3)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/05 13:46 |
| S18 ·    | 82  | (inverse adj2 multiple\$4) and ((stream link) adj (number indicat\$3))        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON | 2007/12/06 10:00 |
| S18<br>8 | 318 | (inverse adj2 multiple\$4) and (overhead ("13" adj Mbps))                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/05 15:30 |
| S18<br>9 | 0   | (inverse adj2 multiple\$4) and (<br>("13" adj Mbps))                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/05 15:32 |
| S19<br>0 | 1   | (inverse adj2 multiple\$4) and (<br>("13" adj Mb\$3))                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/05 15:34 |
| S19<br>1 | 318 | (inverse adj2 multiple\$4) and (<br>overhead)                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/06 15:20 |
| S19<br>2 | 191 | (inverse adj2 multiple\$4) and (overhead) and "370".clas.                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/05 15:47 |
| S19<br>3 | 0   | "18" adj "%" with( overhead) and "370".clas.                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/05 15:48 |
| S19<br>4 | 1   | "18" adj2 ("%" percent) same (<br>overhead) and "370".clas.                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/05 15:51 |

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|----------|-----|--|---|------|-------------|------------------|
| S19<br>5 | 2   | "6490296".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON          | 2007/12/05 16:46 |
| S19<br>6 | 3   | "7006500".pn.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON          | 2007/12/05 16:47 |
| S19<br>7 | 102 | (inverse adj2 multiple\$4) and<br>((stream link ) adj (number<br>identif\$6 indicat\$3))                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON          | 2007/12/06 10:08 |
| S19<br>8 | 11  | (inverse adj2 multiple\$4) and (packet header) with ((stream link ) adj (number identif\$6 indicat\$3))                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR · | ON          | 2007/12/06 10:13 |
| S19<br>9 | 71  | (inverse adj2 multiple\$4) and (packet header) with ((stream link channel pair conductor ) adj (number identif\$6 indicat\$3)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON          | 2007/12/06 10:13 |

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|----------|----|---|---|------|-------------|------------------|
| S20<br>0 | 52 | (US-20050220180-\$ or US-20040062198-\$ or US-20030097624-\$ or US-20030048756-\$ or US-20030043753-\$ or US-20060056330-\$ or US-20060203757-\$ or US-20060056522-\$ or US-20060056522-\$ or US-20030128706-\$ or US-20030128706-\$ or US-20030128706-\$ or US-20030123476-\$).did. or (US-6985503-\$ or US-7065104-\$ or US-7054376-\$ or US-4980887-\$ or US-7054376-\$ or US-3692964-\$ or US-5060226-\$ or US-3692964-\$ or US-6091738-\$ or US-5365590-\$ or US-6091738-\$ or US-5365512-\$ or US-4449247-\$ or US-5365512-\$ or US-4611324-\$ or US-5065396-\$ or US-7092412-\$ or US-6775305-\$ or US-6618374-\$ or US-6002670-\$ or US-7197031-\$ or US-6490296-\$ or US-6205142-\$ or US-6490296-\$ or US-6205142-\$ or US-6490296-\$ or US-7006500-\$).did. or (EP-818941-\$ or WO-3096620-\$). did. or (JP-59092638-\$).did. or | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT             | OR   | ON          | 2007/12/06 12:42 |
|          |    | (EP-161900-\$ or JP-06021910-\$ or EP-143489-\$).did.   |   |      |             | *                |
| S20<br>1 | 8  | S200 and framer   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT             | OR   | ON          | 2007/12/06 12:42 |
| S20<br>2 | 9  | (inverse adj2 multiple\$4) and (<br>overhead) with "13"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON .        | 2007/12/06 16:16 |
| S20<br>3 | 30 | (inverse adj2 multiple\$4) and (<br>overhead) with "12"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR · | ON          | 2007/12/06 15:22 |

| S20<br>4 | 29  | ("20010008534" "20010028644" " 20010040042" "20020007490" "2 0020018491" "20020027876" "20 020027927" "20020039359" "200 20044597" "20020056137" "2002 0080933" "20020097105" "20020 167970" "20030012362" "200301 42759").PN. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR · | ON | 2007/12/06 16:15 |
|----------|-----|--|---|------|----|------------------|
| S20<br>5 | 0   | S204 and "64" adj2 byte  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/06 16:18 |
| S20<br>6 | 0   | S204 and stuff\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/06 16:16 |
| S20<br>7 | 0   | S204 and stuff\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/06 16:18 |
| S20<br>8 | 126 | (inverse adj2 multiple\$4) and stuff\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/06 17:43 |

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|-----------|---------------------------------------|---|---|------|----|------------------|
| S20<br>9. | 52                                    | (US-20050220180-\$ or US-20040062198-\$ or US-20030097624-\$ or US-20030048756-\$ or US-20030043753-\$ or US-20040165888-\$ or US-20060056330-\$ or US-20060203757-\$ or US-20060056522-\$ or US-20030128706-\$ or US-20030128706-\$ or US-20030128706-\$ or US-20030123476-\$).did. or (US-6985503-\$ or US-7065104-\$ or US-7054376-\$ or US-4980887-\$ or US-7054376-\$ or US-3692964-\$ or US-5060226-\$ or US-3692964-\$ or US-6091738-\$ or US-5365512-\$ or US-4449247-\$ or US-5365512-\$ or US-4449247-\$ or US-5365512-\$ or US-4069402-\$ or US-5848054-\$ or US-4069402-\$ or US-5065396-\$ or US-618374-\$ or US-6775305-\$ or US-618374-\$ or US-6775305-\$ or US-618374-\$ or US-6002670-\$ or US-7197031-\$ or US-7197031-\$ or US-7161953-\$).did. or (US-6198749-\$ or US-5787114-\$ or US-6490296-\$ or US-6205142-\$ or US-6490296-\$ or US-7006500-\$).did. or (EP-818941-\$ or WO-3096620-\$). did. or (JP-59092638-\$).did. or (EP-161900-\$ or JP-06021910-\$ or EP-143489-\$).did. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT             | OR   | ON | 2007/12/07 15:59 |
| S21<br>0  | 12                                    | S209 and stuff\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/06 16:18 |
| S21<br>1  | 4                                     | S209 and "64" adj2 byte   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/06 17:17 |
| S21<br>2  | 4                                     | S209 and (("64" adj2 byte) ("512"<br>adj bit))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR . | ON | 2007/12/07 10:25 |

| S21<br>3 | 69 | (inverse adj multiplex\$3) and (("64" adj2 byte) ("512" adj bit))                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/06 17:25 |
|----------|----|--|---|----|----|------------------|
| S21<br>4 | 18 | S213 and (begin\$3 end\$3) adj3 packet   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/06 17:27 |
| S21<br>5 | 0  | S209 and (begin\$3 end\$3) adj3<br>packet  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/06 17:30 |
| S21<br>6 | 4  | S209 and multilink adj protocol  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/06 17:30 |
| S21<br>7 |    | (inverse adj2 multiple\$4) and "64" adj2 byte  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/06 17:44 |
| S21<br>8 | 69 | (inverse adj multiplex\$3) and (("64" adj2 byte) ("512" adj bit))                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/06 17:51 |
| S21<br>9 | 25 | S209 and "64"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT             | OR | ON | 2007/12/06 18:09 |
| S22<br>0 | 69 | (inverse adj multiplex\$3) and (("64" adj2 byte) ("512" adj bit))                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/07 10:33 |
| S22<br>1 | 60 | (inverse adj multiplex\$3) and (("64" adj2 byte) ("512" adj bit)) and fram\$3                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/07 10:34 |
| S22<br>2 | 58 | (inverse adj multiplex\$3) and (("64" adj2 byte) ("512" adj bit)) and fram\$3 and (begin\$3 start) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/07 14:58 |

| S22<br>3 | 7882 | (stream link channel pair) with (number indicator identifier bit byte field) with \$wire | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/07 15:01 |
|----------|------|--|---|----|----|------------------|
| S22<br>4 | 23   | S223 and (inverse adj<br>multiplex\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/07 15:01 |
| S22<br>5 | 19   | (identifier indicator) with (wiring adj error)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/07 15:50 |
| S22<br>6 | 118  | (identifier indicator detect\$3) with (wiring adj error)                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/12/07 15:50 |

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|----------|----|--|---|----|----|------------------|
| S22<br>7 | 55 | (US-20050220180-\$ or US-20040062198-\$ or US-20030097624-\$ or US-20030048756-\$ or US-20030043753-\$ or US-20060056330-\$ or US-20060056330-\$ or US-20060056522-\$ or US-20060056522-\$ or US-20030128706-\$ or US-20030128706-\$ or US-20030128706-\$ or US-20030123476-\$ or US-20030123476-\$ or US-2003008041-\$ or US-20020080825-\$).did. or (US-6985503-\$ or US-7065104-\$ or US-7054376-\$ or US-4980887-\$ or US-7054376-\$ or US-3692964-\$ or US-6091738-\$ or US-5365590-\$ or US-6091738-\$ or US-5365512-\$ or US-4449247-\$ or US-5365512-\$ or US-44611324-\$ or US-5365512-\$ or US-4611324-\$ or US-5065396-\$ or US-7092412-\$ or US-6775305-\$ or US-618374-\$ or US-6775305-\$ or US-618374-\$ or US-6002670-\$ or US-6198749-\$ or US-5787114-\$ or US-6822960-\$ or US-7006500-\$ or US-6731678-\$).did. or (EP-818941-\$ or WO-3096620-\$). did. or (JP-59092638-\$).did. or (EP-161900-\$ or JP-06021910-\$ | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/07 15:59 |
| S22<br>8 | 2  | or EP-143489-\$).did.<br>S227 and wir\$4 adj error   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/07 16:00 |
| S23<br>0 | 2  | S227 and ((wir\$4 adj error) miswir\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/10 08:16 |
| S23<br>1 | 9  | loopback with code with consecutive  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/12/10 09:09 |

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|                        |      |  |   | •    |    |                  |
|------------------------|------|--|---|------|----|------------------|
| S23<br>2               | 16   | loopback with code with (consecutive subsequent)           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR   | ON | 2007/12/10 09:36 |
| S23<br>3               | 29   | number with loopback with code                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR   | ON | 2007/12/10 09:07 |
| S23<br>4               | 5    | number with times with loopback with code                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR   | ON | 2007/12/10 09:07 |
| S23<br>5               | 34   | loopback with code with repeat\$3                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR   | ON | 2007/12/10 09:09 |
| S23<br>6               | 48   | loopback with code with (consecutive subsequent repeat\$3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR   | ON | 2007/12/10 14:38 |
| S23<br>7               | 2    | repeater with non\$repeater with switch                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR   | ON | 2007/12/10 14:43 |
| \$23<br>8 <sub>.</sub> | 254  | repeater with end with switch                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR   | ON | 2007/12/10 14:40 |
| S23<br>9               | 497  | repeater with terminal with switch                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR   | ON | 2007/12/10 14:40 |
| S24<br>0               | 4653 | repeater with switch                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR . | ON | 2007/12/10 14:40 |
| S24<br>1               | 0    | repeater with non\$repeater with select\$3                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR   | ON | 2007/12/10 14:43 |
| S24<br>2               | 4    | repeater with non\$repeater with configur\$5               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR   | ON | 2007/12/10 15:05 |
| S24<br>3               | 97   | (T3 ds3) with repeater                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR   | ON | 2007/12/10 14:59 |

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|----------|------|--|---|-------------|----|------------------|
| S24<br>4 | 76   | S243 and switch  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR          | ON | 2007/12/10 15:00 |
| S24<br>5 | 3650 | repeater and (non\$repeater end) with (configur\$5 select\$3)            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR          | ON | 2007/12/10 15:13 |
| S24<br>6 | 72   | S245 and (Ds3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR          | ON | 2007/12/10 15:06 |
| S24<br>7 | 455  | repeater with (non\$repeater end)<br>with (configur\$5 select\$3 switch) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR          | ON | 2007/12/10 15:15 |
| S24<br>8 | 244  | repeater with (non\$repeater end) with (configur\$5 select\$3 dip)       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR          | ON | 2007/12/10 15:24 |
| S24<br>9 | 31   | DS3 with repeater  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR .        | ON | 2007/12/10 15:25 |
| S25<br>0 | 72   | inverse adj multiplex\$3 and repeater                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR          | ON | 2007/12/11 09:14 |

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|----------|----|--|---|---------------------------------------|-----|------------------|
| S25<br>1 | 59 | (US-20050220180-\$ or US-20040062198-\$ or US-20030097624-\$ or US-20030048756-\$ or US-20030043753-\$ or US-20060056330-\$ or US-20060056330-\$ or US-20060056522-\$ or US-20030128706-\$ or US-20030128706-\$ or US-20030128706-\$ or US-20030128706-\$ or US-20030123476-\$ or US-20030123476-\$ or US-20030080825-\$).did. or (US-6985503-\$ or US-7065104-\$ or US-7133441-\$ or US-4980887-\$ or US-7054376-\$ or US-3692964-\$ or US-5060226-\$ or US-3692964-\$ or US-6091738-\$ or US-5365512-\$ or US-4449247-\$ or US-5365512-\$ or US-44691324-\$ or US-5065396-\$ or US-7092412-\$ or US-5065396-\$ or US-6618374-\$ or US-6002670-\$ or US-797031-\$ or US-7161953-\$).did. or (US-6198749-\$ or US-5787114-\$ or US-6490296-\$ or US-5787114-\$ or US-6490296-\$ or US-5787114-\$ or US-6490296-\$ or US-5787114-\$ or US-6490296-\$ or US-5787114-\$ or US-677305-\$ or US-679303-\$ or US-57197031-\$ or US-7161953-\$).did. or (US-6198749-\$ or US-5787114-\$ or US-6822960-\$ or US-5787114-\$ or US-6731678-\$ or US-5784558-\$ or US-5726993-\$ or US-5784558-\$ | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR                                    | ON  | 2007/12/10 16:25 |
| S25      | 27 | or EP-143489-\$).did.<br>S251 and repeater   | US-PGPUB;                                   | OR                                    | ON  | 2007/12/10 16:19 |
| 2        | ۷1 | J2J1 and repeater  | USPAT;<br>EPO; JPO;<br>DERWENT              |                                       | Ola | 2007/12/10 10.19 |
| S25<br>4 | 88 | DS3 and back-to-back   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR                                    | ON  | 2007/12/11 09:18 |
| S25<br>5 | 12 | S254 and repeater  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR                                    | ON  | 2007/12/11 09:14 |

| S25<br>6 | . 55      | back-to-back with repeater                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT             | OR   | ON | 2007/12/11 09:18 |
|----------|-----------|--|---|------|----|------------------|
| S25<br>7 | 9126      | repeat with switch                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 09:52 |
| S25<br>8 | 4398      | repeat near5 switch                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR - | ON | 2007/12/11 09:52 |
| S25<br>9 | 1853      | repeat near2 switch                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 09:52 |
| S26<br>0 | 889       | repeat near switch                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 09:53 |
| S26<br>1 | 892       | repeater near switch                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 09:58 |
| S26<br>2 | <b>47</b> | S260 and "370".clas.                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 09:58 |
| S26<br>3 | 961       | repeater with switch with (select control)     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 10:10 |
| S26<br>4 | 183       | S263 and "370".clas.                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 09:58 |
| S26<br>5 | 1         | non-repeater with switch with (select control) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 10:09 |

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| S26<br>6 | . 5 | repeater with (dip adj switch) with (select control) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON   | 2007/12/11 10:12 |
|----------|-----|--|---|-----|------|------------------|
| S26<br>7 | 22  | repeater with (dip adj switch)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON   | 2007/12/11 13:01 |
| S26<br>8 | 58  | repeater with west with east                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON   | 2007/12/11 12:42 |
| S26<br>9 | 39  | S268 and switch                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON   | 2007/12/11 12:53 |
| S27<br>0 | 23  | S268 and switch with (configur\$5 select\$3 set\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON   | 2007/12/11 13:46 |
| S27<br>1 | 2   | (east west) with (dip adj switch)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR. | ON   | 2007/12/11 13:02 |
| S27<br>2 | 967 | (east west) with configur\$5                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON   | 2007/12/11 13:03 |
| S27<br>3 | 197 | repeater with switch with address                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON   | 2007/12/11 13:47 |
| S27<br>4 | 6   | repeater with (dip adj switch) with address          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON · | 2007/12/11 13:49 |
| S27<br>5 | 10  | repeater same (dip adj switch)<br>with address       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON   | 2007/12/11 13:58 |

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| S27<br>6 | 10   | repeater same (dip adj switch)<br>same address                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 13:58 |
| S27<br>7 | 120  | repeater and (dip adj switch) same address                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR " | ON | 2007/12/11 14:02 |
| S27<br>8 | 26   | loopback and (dip adj switch)<br>same address                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 15:40 |
| S27<br>9 | 120  | repeater and (dip adj switch)<br>same address                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 14:30 |
| S28<br>0 | 1637 | west and repeater   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/11 15:40 |
| S28<br>1 | 119  | repeater and ("2000" "2100" "2200" "2300" "2400" "2500" "2600") adj (feet ft) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/26 14:37 |
| S28<br>2 | 1071 | data adj rate with (copper twisted)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR , | ON | 2007/12/26 15:29 |
| S28<br>3 | 363  | S282 and "370".clas.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/26 14:43 |
| S28<br>4 | 27   | S283 and "13" adj Mbps  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/26 15:28 |
| S28<br>6 | 28   | "13" adj mbps with (copper<br>twisted)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR   | ON | 2007/12/26 15:29 |